

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: SHAPER

Report Number: P701858

Luminaire Tested: 340-4C-08-D010 / 340-EU4C-1020-9730-4LBW1LI-GFF

Issue Date: 8/30/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P701858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1705-068-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 8/30/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: SHAPER  
Catalog Number: 340-4C-08-D010 / 340-EU4C-1020-9730-4LBW1LI-GFF  
Description: FARALLON 4" LED GLASS DOWNLIGHT. GLASS-IN-A-GLASS, FROSTED INSIDE, FROSTED OUTSIDE KIT.  
Light Source: 3000K CCT, 97 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

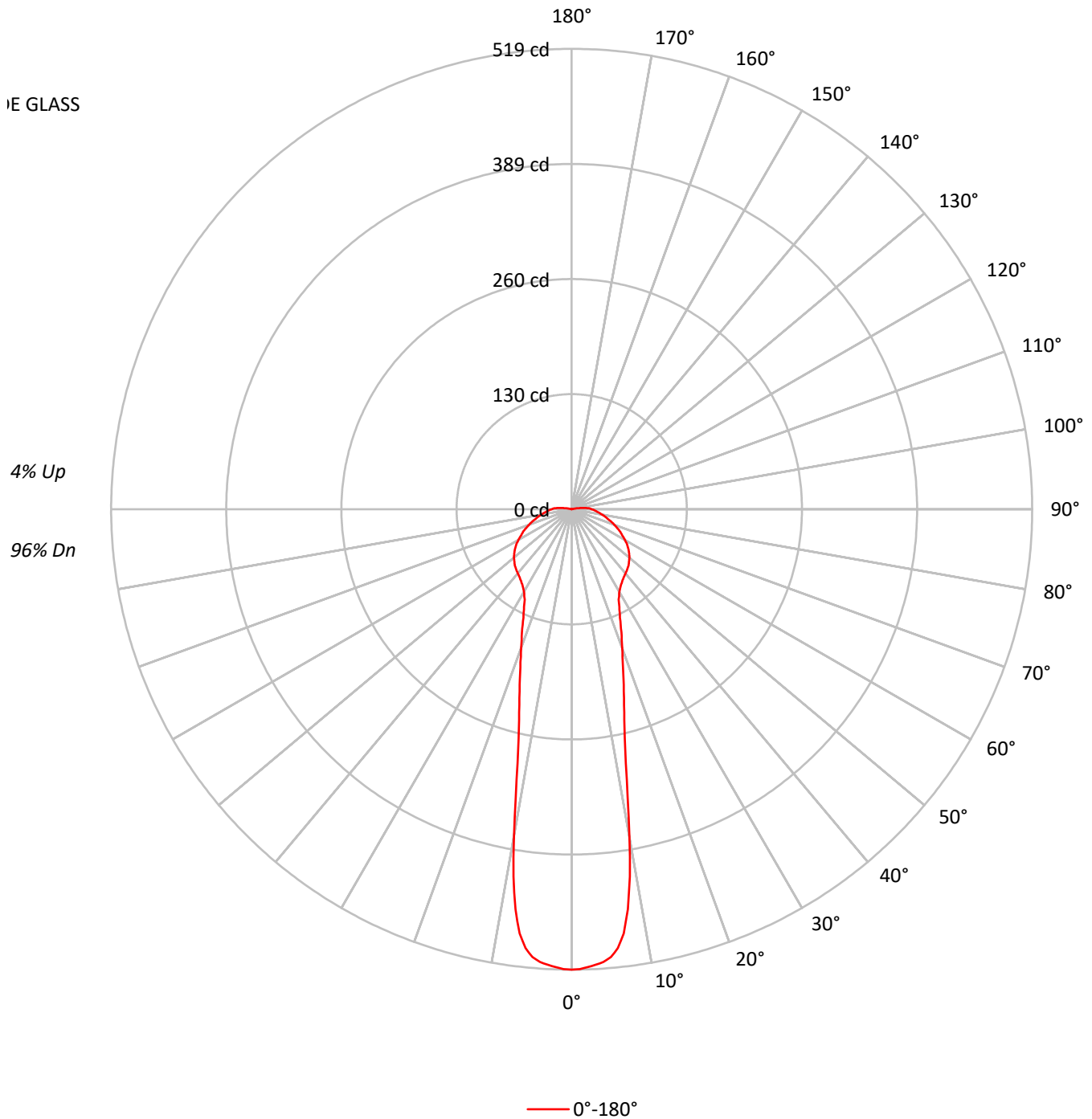
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 526.1 lumens  
Efficiency: N/A  
Efficacy: 53.1 lumens/watt  
Spacing Criteria (0/90/45): 0.44 / 0.44 / 0.54  
Luminous Opening: Vertical Cylinder (Dia: 0.34' x H: 0.46')  
CIE Type: Direct  
  
Input Watts (W): 9.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	96
1	107	101	96	92	103	98	94	90	94	90	87	89	86	83	85	82	80	78
2	97	88	81	75	94	86	79	74	82	76	72	78	73	69	74	71	67	65
3	89	78	70	63	86	76	69	62	73	66	61	69	64	59	66	62	58	55
4	82	70	61	54	79	68	60	54	65	58	53	63	57	52	60	55	51	48
5	76	63	54	48	74	62	54	47	59	52	47	57	51	46	55	49	45	43
6	71	58	49	43	69	57	48	42	54	47	42	52	46	41	51	45	40	38
7	66	53	45	39	64	52	44	38	50	43	38	49	42	37	47	41	37	35
8	62	49	41	35	60	48	41	35	47	40	35	45	39	34	44	38	34	32
9	59	46	38	33	57	45	38	32	44	37	32	42	36	32	41	36	31	30
10	55	43	35	30	54	42	35	30	41	34	30	40	34	30	39	33	29	28

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	60195
5°	51374
10°	33990
15°	18842
20°	12694
25°	9121
30°	7257
35°	6417
40°	5895
45°	5497
50°	5067
55°	4612
60°	4080
65°	3578
70°	3053
75°	2572
80°	2174
85°	1859

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 5497 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.6	8.5
10°-20°	65.4	12.4
20°-30°	59.8	11.4
30°-40°	62.5	11.9
40°-50°	69.6	13.2
50°-60°	69.6	13.2
60°-70°	59.7	11.3
70°-80°	45.0	8.6
80°-90°	31.1	5.9
90°-100°	16.5	3.1
100°-110°	2.3	0.4
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	169.8	32.3
0°-40°	232.3	44.2
0°-60°	371.5	70.6
0°-90°	507.3	96.4
90°-120°	18.8	3.6
90°-150°	18.8	3.6
90°-180°	19.0	3.6
0°-180°	526.1	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	519	
5°	507	45
15°	228	65
25°	128	60
35°	99	63
45°	90	70
55°	78	70
65°	60	60
75°	42	45
85°	28	25
90°	22	12
95°	16	11
105°	1	2
115°	0	0
125°	0	0
135°	0	0
145°	0	0
155°	0	0
165°	0	0
175°	0	0
180°	0	

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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	519.0
1°	518.4
2°	516.3
3°	514.3
4°	511.6
5°	506.8
6°	497.3
7°	481.7
8°	455.2
9°	419.2
10°	375.0
11°	330.2
12°	292.8
13°	265.6
14°	244.6
15°	228.3
16°	213.3
17°	199.7
18°	187.5
19°	176.0
20°	166.4
21°	157.6
22°	149.5
23°	141.3
24°	133.8
25°	127.7
27.5°	114.8
30°	107.3
32.5°	102.6
35°	99.2
37.5°	96.5
40°	94.4
42.5°	92.4
45°	90.4
47.5°	87.6
50°	84.9
52.5°	81.5
55°	78.1
57.5°	74.1
60°	69.3
62.5°	64.5
65°	60.5
67.5°	55.7
70°	51.0
72.5°	46.9

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**CANDELA DISTRIBUTION (continued):**

	0°
75°	42.1
77.5°	38.7
80°	34.6
82.5°	31.3
85°	28.5
87.5°	25.8
90°	22.4
92.5°	20.4
95°	15.6
97.5°	10.2
100°	6.1
102.5°	3.4
105°	1.4
107.5°	0.7
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

(END OF REPORT)